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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,063	12/27/2001	Gerhard Niedermair	449122019600	1764

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EXAMINER

ARMSTRONG, ANGELA A

ART UNIT	PAPER NUMBER
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2654

DATE MAILED: 01/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/019,063

Applicant(s)

NIEDERMAIR, GERHARD

Examiner

Angela A. Armstrong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 September 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. Claims 1-4 and 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Junqua et al (US Patent No. 6,684,185) in view of Shaw (US 2002/0013707).
3. Regarding claim 1, Junqua discloses a method for speech processing comprising converting an orthographic input into a phonetic transcription in a first conversion step at col. 3, lines 38-57; a second step of converting from the phonetic transcription into a pseudo-orthographic representation and outputting in this representation at col. 4, lines 3-22 and 37-40; col. 5, lines 33-37. Junqua does not teach analyzing the output pseudo-orthographic representation to determine if the orthographic input was correctly converted. Shaw discloses a system for developing word pronunciation pairs for use in a speech recognition system, in which an editing tool is provided for developing word-pronunciation pairs based on a spelled word input. The editing tool includes a transcription generator that receives the spelled word input from the user and generates a list of suggested phonetic transcriptions. The editor displays the list of suggested phonetic transcriptions to the user and provides a mechanism for selecting the desired pronunciation from the list of suggested phonetic transcriptions.

It would have been obvious to one of ordinary skill at the time of the invention to modify the system of Junqua to display the transcriptions to the user to have the user select the desired pronunciation, for the purpose of ensuring that user specific words or phrases are transcribed to reflect the user's desired characteristics.

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Regarding claim 2, Junqua discloses a third step of converting an input performed in the pseudo-orthographic representation into the phonetic transcription at col. 4, line 62 continuing to col. 5, line 32.

Regarding claim 3, Junqua discloses conversion of phonetic word units into simple grapheme script units at col. 3, line 38 continuing to col. 4, line 37.

Regarding claim 4, Junqua discloses conversion step executed by accessing a stored phoneme/grapheme assignment table at col. 7, lines 8-65.

Regarding claims 6-9, claims 6-9 are apparatus claims similar in scope and content to method claims 1-4 and therefore are rejected under similar rationale.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Junqua in view of Shaw and further in view of Molnar et al (US Patent 6,411,932).

5. Regarding claim 5, Junqua does not teach the implementation of a neural network as a machine-learning/ self-learning technique for obtaining phonetic information. However, implementation of a neural network technique to acquire phonetic information was well known in the art. Molnar teaches a learner technique using a neural network to form pronunciation guesses for words in a training set and for finding a transformation rule that improves the guesses

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(Figure 15, col. 5, lines 4-21) and specifically teaches the system can produce good pronunciations or transcriptions for word not in a training set (col. 5, lines 43-50).

It would have been obvious to one of ordinary skill at the time of the invention to modify the system of Junqua to implement a neural network in the phonetic transcription system, as suggested by Molnar, for the purpose of producing transcriptions or pronunciations of new words or words not a part of the original vocabulary or grammar, as also suggested by Molnar.

Response to Arguments

6. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela A. Armstrong whose telephone number is 571-272-7598. The examiner can normally be reached on Monday-Thursday 11:30-8:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Angela A Armstrong
Primary Examiner
Art Unit 2654

AAA
January 8, 2006

A handwritten signature in black ink that reads "Angela Armstrong". The signature is written in a cursive, flowing style.